Daily Diary Report by Bid Item

Contract No.: 04-0120F4
Diary #: 1320 **Const Calendar Day:** 893 **Date:** 14-Nov-2014 **Friday**
Inspector Name: Brignano, Bob **Title:** Transportation Engineer
Inspection Type:
Shift Hours: **Break:** **Over Time:**
Federal ID:
Location:
Reviewer: Schmitt, Alex **Approved Date:** **Status:** Submit

04-0120F4
04-SF-80-13.2/13.9
Self-Anchored
Suspension Bridge

Weather

Temperature **7 AM** **12 PM** **4PM**
Precipitation **Condition** clear

Working Day ☑ If no, explain:

Diary: Dispute ☐

General Comments

CCO 314, SAMPLING AND TESTING A354 GRADE BD MATERIAL:

There is no work in the field on this operation today by ABF. The Townsend Test (Test IV) is complete. Crews at the Pier 7 warehouse are working an 8-hour shift 0700 through 1530. ABF is working in the field today on other operations, which are not covered by this diary.

ITEM 53, TOWER FOUNDATION ANCHOR RODS GROUT - MOCKUP:

There is some work in the field on this operation today by ABF and its subcontractors. Crews at the Pier 7 warehouse are working an 8-hour shift 0700 through 1530. ABF is also working in the field today on other operations, which are not covered by this diary. The tower foundation anchor rods grout mockup operation is inspected by Sami Daouk.

ABF's water jetting subcontractors, American Water Jetting from Richmond California and RES Environmental Services (also known as Russo Environmental Services) from Pittsburg California, are present today. Various people from ABF's hourly crew (ironworker general foreman, ironworker, laborers (foremen and journeymen), operator, mechanic) are present for parts of the day, but are also doing other work around the Pier 7 warehouse area today.

After yesterday's work to remove the first mockup with 6 setups with an inner pipe to mimic the rod and an outer pipe for the pipe sleeve, there was some work yesterday on reconfiguring the stair tower. The work on the reconfiguration of the stair tower continues this morning, so that it will be optimal for work on the second mockup - 6 setups in a second mockup have Denso wrapped galvanized rods.

Starting about 0900, ABF performs test jetting of the first setup of the second mockup – this is the first rod/sleeve of the six rods/sleeves in the mockup with the Denso wrapped galvanized rods in the pipe sleeves. Included in those present for this first demonstration are Brian Maroney, Stanley Ku, and Mohammad Awal from CT, along with James Elliot and Scott Croff from CT-METS. For this first mockup, the water jetting lance only makes is part way down before getting stuck. After some amount of time, they then manage to later free the head (working by hand).

Because of discussion about the condition in the field, I get 2 spare upper pipe sleeve extensions – these are also known as a "Fnorton" or the "Christmas Tree Holder" extensions with centralizing bolts. One piece is the ~6" diameter upper sleeve extension for the 3" diameter rods and the other piece is the ~7" diameter extension for the 4" diameter rods. These are examined by American Water Jetting and RES

Environmental Services.

Then, the water jetting moves to a second rod/sleeve later in the afternoon. For this second rod/sleeve, they are able to get deeper before the water jetting lance tip gets stuck. They are not able to free the stuck lance by hand and need to use a forklift to pull it out. ABF checks with a boroscope and sees where the lance hit the plastic grout tube and was then deflected – path diverted by plastic tube in the way. They also find an accumulating of Denso material at the bottom of the hole. Note that the water jetting cuts off the Denso material from the galvanized rod at the location where the water jet lance operates, and it appears that not all of the cut Denso material is being pushed out of the hole. Note that from examining the boroscope it is not possible to conclusively determine if there has been any damage to the galvanizing – this will need to be checked in the future by removing the rods from the pipe sleeves.

Included in the work by ABF is to maintain the fresh water Baker Tank with enough water and vacuum off the waste water from the ground into the other Baker Tank.

The water jetting subcontractors leave early in the afternoon and plan to be back for more water jetting tomorrow after receiving some more parts – ordered more water lance nozzles/tips that are scheduled to be delivered tomorrow morning.

ITEM 53, TOWER FOUNDATION ANCHOR RODS GROUT - FIELD/T1:

There is some work in the field on this operation today by ABF. Crews at the Pier 7 warehouse are working an 8-hour shift 0700 through 1530. ABF is also working in the field today on other operations, which are not covered by this diary. The tower foundation anchor rods grout operation is inspected by Sami Daouk.

Today, ABF receives six Baker Tanks that they are going to load on a barge for use during the water jetting work in the field (at T1) in the future. The Baker Tanks are not loaded on the barge today. Note that in order to load the Baker tanks on the barge, they need to coordinate with the YBITS-2 Contractor CEC, who now operates the Whirly Crane at the pier. Until a few weeks ago, it was ABF's responsibility to maintain and operate the Whirly Crane at the pier, including operating it for CEC (and charging CEC for ABF's time spent assisting them), but then ABF turned over responsibility for the Whirly Crane to Caltrans, which then gave the responsibility for maintenance and operating the Whirly Crane to CEC.

In the afternoon, ABF (James "Fish" Sturgeon, Jose Avila, & Victor Hernandez), CT (Sami Daouk & Mohammad Awal), and CT-METS (James Elliot) go to T1 to break through the grout with backer rod "caps" at locations where this location is anticipated to exist (at construction joint locations for the tower base grout pad – at the air bladder locations where the rod donuts were cut for access). They are identifying locations with this condition to see if there is water underneath the grout and backer rod "cap" for future water sampling and testing. For the first few locations where they break through grout and backer rod "caps", they find grout a short distance below that. At the end of their work in the field today, they succeed in finding a location that appears to be fully ungrouted, that is full of water that can be sampled next week, and is at a location that is known from KFM E2/T1 details to have a nut keeper at the bottom – the TBPOC has directed that a fully ungrouted rod be extracted for testing, and a nut keeper at the bottom is preferred in order for this to happen successfully (will be able to unthread the rod from the nut at the bottom). After breaking through, they reseal the hole to preserve the water sample from contamination prior to the scheduled sampling and testing next week.